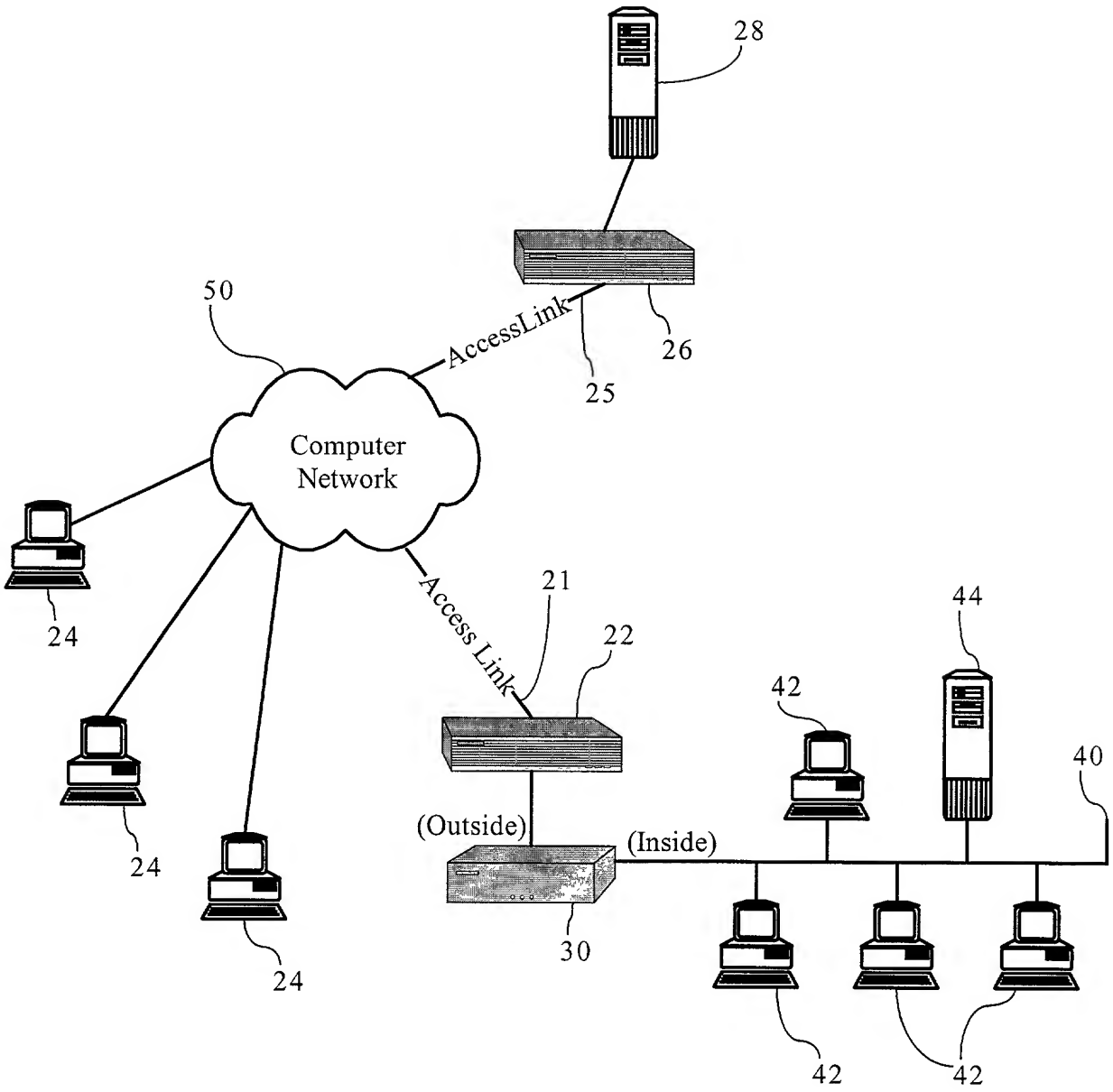
28
26
25
AccessLink
50
Computer
Network
24
24
24
Access Link
21
22
(Outside)
(Inside)
30
42
44
40
42
42

Fig._1

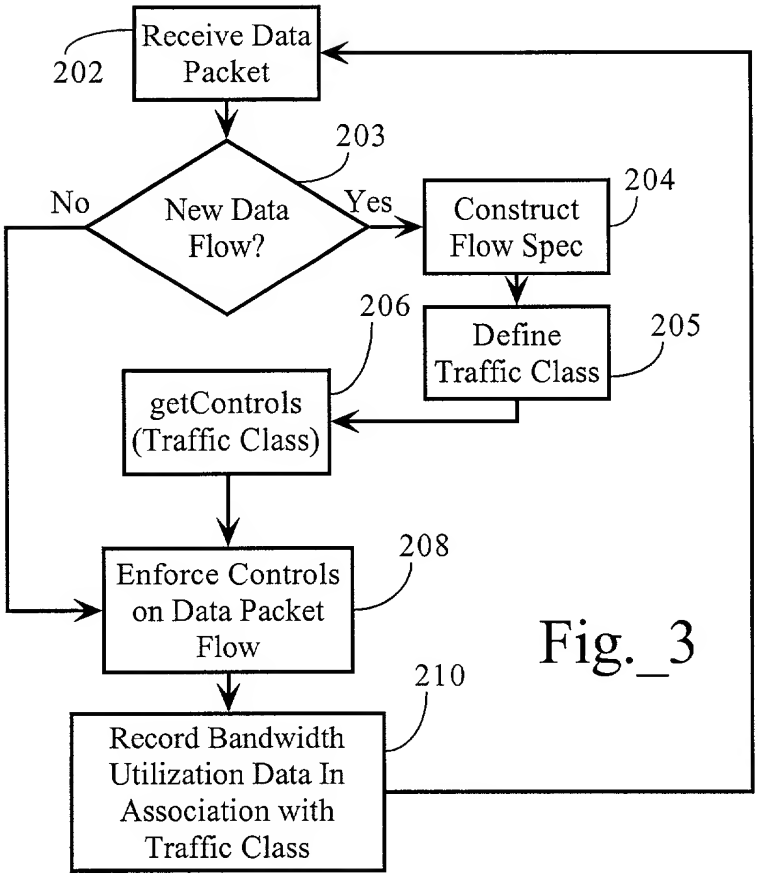
Receive Data Packet
202
203
New Data Flow?
No
Yes
204
Construct Flow Spec
205
Define Traffic Class
206
getControls (Traffic Class)
208
Enforce Controls on Data Packet Flow
210
Record Bandwidth Utilization Data In Association with Traffic Class

Fig._3

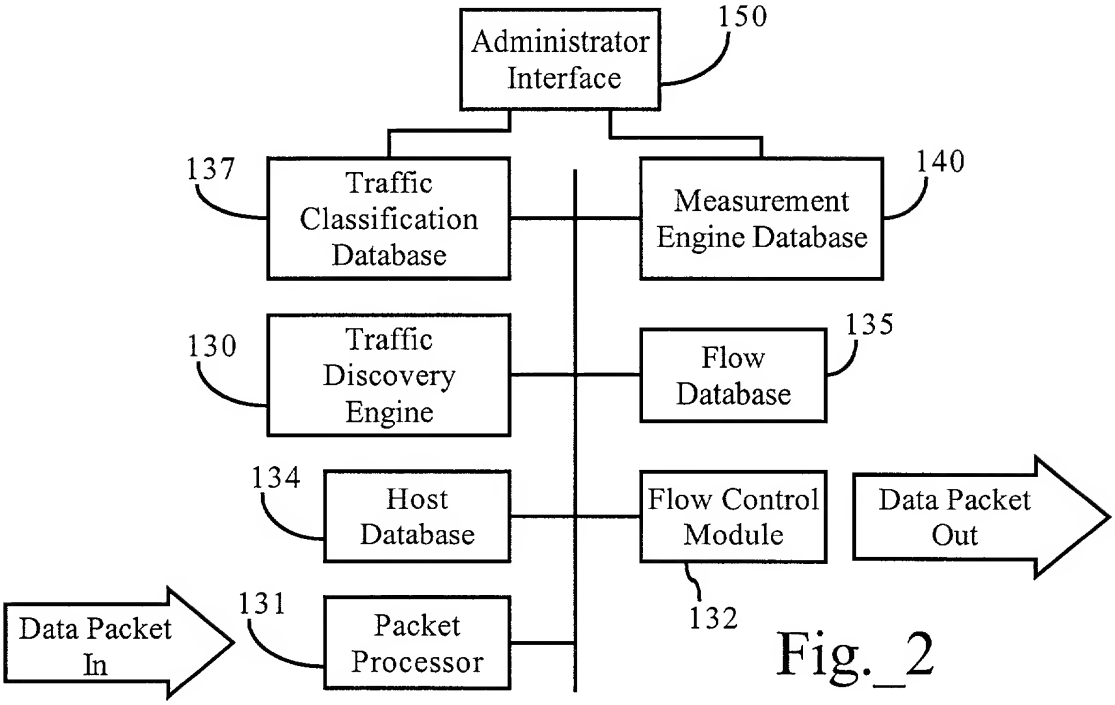
Administrator Interface
150
137
Traffic Classification Database
140
Measurement Engine Database
130
Traffic Discovery Engine
135
Flow Database
134
Host Database
Flow Control Module
Data Packet Out
131
Packet Processor
132
Data Packet In

Fig._2

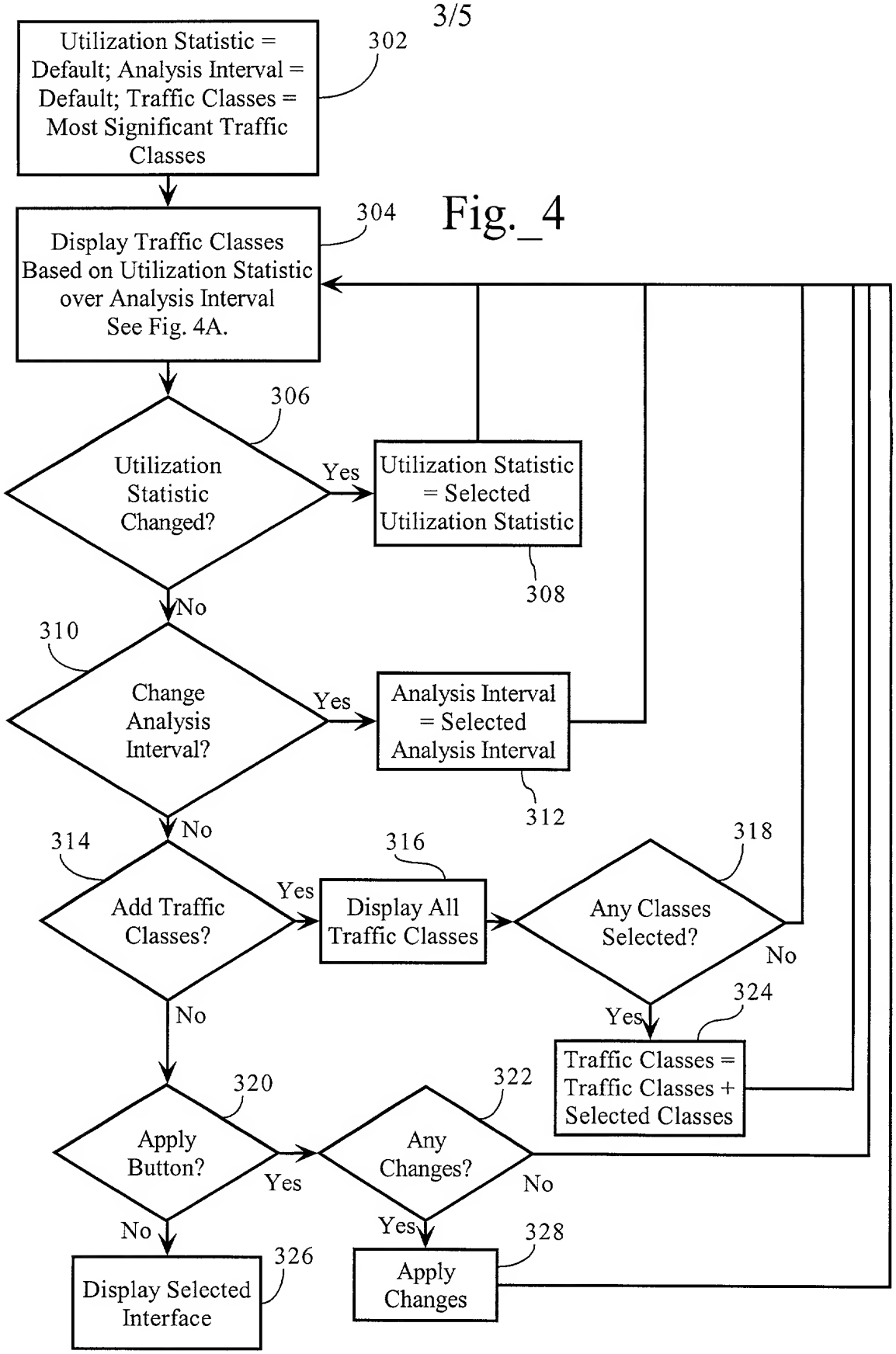
Utilization Statistic = Default; Analysis Interval = Default; Traffic Classes = Most Significant Traffic Classes
302
Display Traffic Classes Based on Utilization Statistic over Analysis Interval See Fig. 4A.
304
306
Utilization Statistic Changed?
Yes
Utilization Statistic = Selected Utilization Statistic
308
No
310
Change Analysis Interval?
Yes
Analysis Interval = Selected Analysis Interval
312
No
314
Add Traffic Classes?
Yes
316
Display All Traffic Classes
318
Any Classes Selected?
No
Yes
324
Traffic Classes = Traffic Classes + Selected Classes
No
320
Apply Button?
Yes
322
Any Changes?
No
Yes
No
326
Display Selected Interface
328
Apply Changes

Fig._4

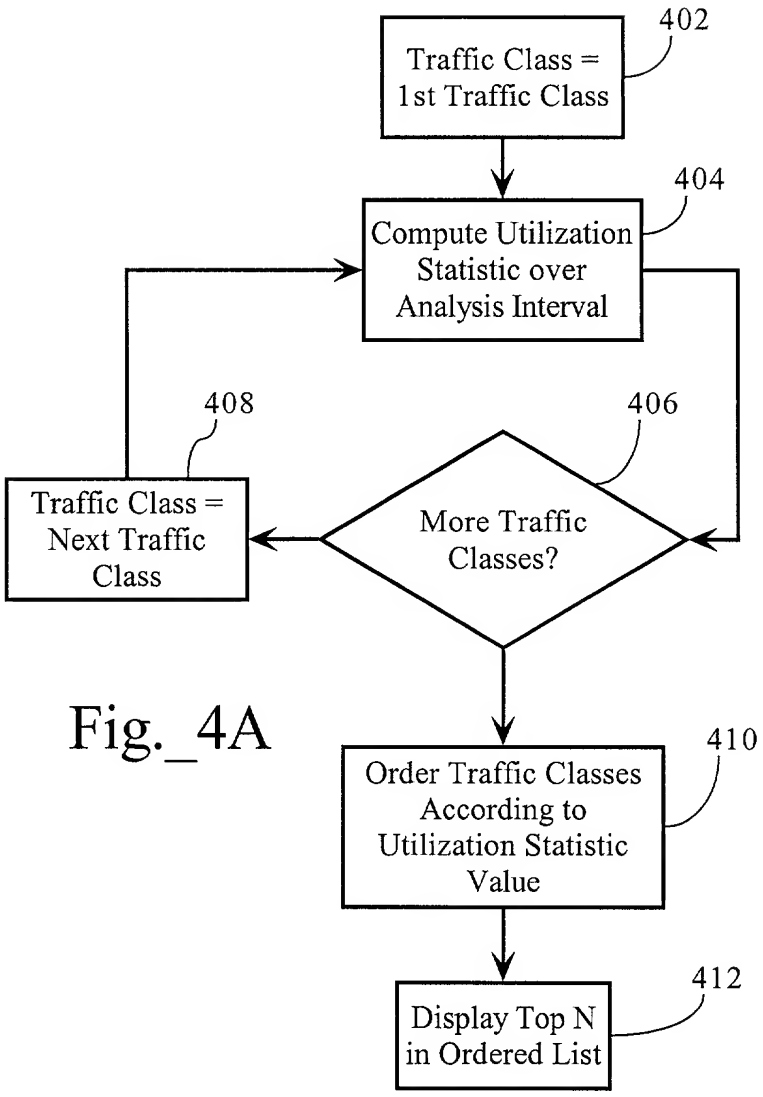
Traffic Class = 1st Traffic Class
402
Compute Utilization Statistic over Analysis Interval
404
More Traffic Classes?
406
Traffic Class = Next Traffic Class
408
Order Traffic Classes According to Utilization Statistic Value
410
Display Top N in Ordered List
412

Fig._4A

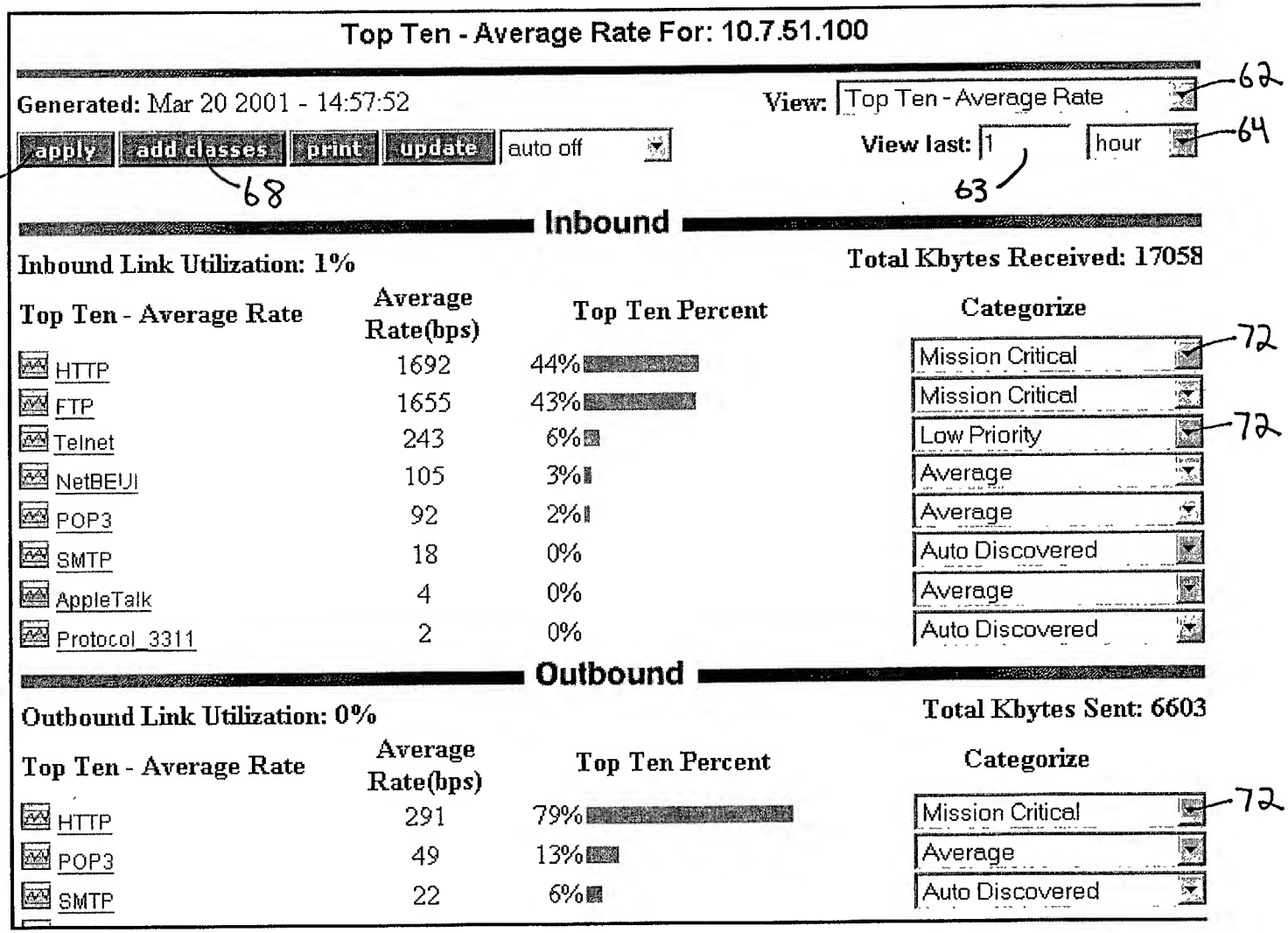
Top Ten - Average Rate For: 10.7.51.100
Generated: Mar 20 2001 - 14:57:52
View: Top Ten - Average Rate
62
apply
add classes
print
update
auto off
View last: 1
hour
64
66
68
63
Inbound
Inbound Link Utilization: 1%
Total Kbytes Received: 17058
Top Ten - Average Rate
Average Rate(bps)
Top Ten Percent
Categorize
HTTP 1692 44% Mission Critical
FTP 1655 43% Mission Critical
Telnet 243 6% Low Priority
NetBEUI 105 3% Average
POP3 92 2% Average
SMTP 18 0% Auto Discovered
AppleTalk 4 0% Average
Protocol_3311 2 0% Auto Discovered
72
72
Outbound
Outbound Link Utilization: 0%
Total Kbytes Sent: 6603
Top Ten - Average Rate
Average Rate(bps)
Top Ten Percent
Categorize
HTTP 291 79% Mission Critical
POP3 49 13% Average
SMTP 22 6% Auto Discovered
72

FIG. 5